

Claims:

1. A transmitter comprising:
  - an amplitude phase extracting unit, extracting amplitude data and phase data from inputted transmit data;
  - a delay unit, delaying at least one of the amplitude data and the phase data;
  - a phase modulating unit, modulating the phase of the phase data;
  - a high frequency amplifying unit, using a phase modulating signal from the phase modulating unit as an input signal to amplify the power of a high frequency signal; and
  - an amplitude modulating unit, modulating the amplitude of the amplitude data to output an amplitude modulating signal for controlling source voltage applied to the high frequency amplifying unit.
2. The transmitter according to claim 1, further comprising:
  - an envelope detecting unit, detecting an envelope component of an output signal of the high frequency amplifying unit; and
  - a negative feedback loop, negatively feeding back the envelope component to the amplitude data extracted by the amplitude phase extracting unit.
3. The transmitter according to claim 1 or 2, further comprising:
  - a delay quantity switching and control unit, switching and

controlling the quantity of delay of the delay unit,

wherein when the transmit data having different signal bandwidth as the transmit data is inputted, the delay quantity switching control unit switches the quantity of delay to the quantity of delay corresponding to the signal bandwidth.

4. The transmitter according to claim 1 or 2, further including:  
a delay quantity table, storing delay quantity data preset in accordance with the state of the transmitter; and  
a delay quantity switching and control unit, switching and controlling the quantity of delay of the delay unit on the basis of the delay quantity data of the delay quantity table.
5. The transmitter according to any of claims 1 to 4, further including:  
a high frequency output measuring unit, measuring the characteristics of the output signal of the high frequency amplifying unit; and  
a delay quantity calculating unit, calculating a prescribed delay quantity on the basis of the measured result of the high frequency output measuring unit to set the quantity of delay in the delay unit.
6. A method for adjusting a transmitter comprising:  
a delay unit, delaying at least one of amplitude data and

phase data extracted from inputted transmit data; and

a high frequency amplifying unit, using an amplitude modulating signal and a phase modulating signal obtained by modulating the amplitude data and the phase data to amplify the power of a high frequency signal; said method for adjusting a transmitter comprising:

a high frequency output signal measuring step for measuring the characteristics of the output signal of the high frequency amplifying unit in the transmitter; and

a delay quantity calculating step for calculating a proper delay quantity on the basis of the measured result to set the quantity of delay in the delay unit.